

IN THE ABSTRACT

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A device to visualize in-line the polymer melting in plasticating screw machines has an external metallic cylinder to be fixed in radial position regarding the barrel of the plasticating machine, a bushing with an optical window clear to the visible light spectrum resistant to pressure and temperature positioned in such a way that its external face is tangent to the internal surface of the barrel of the plasticating machine, and an internal metallic cylinder to guide the coolant gas and allow the use of an observation probe with operating temperature limits and an illumination system.